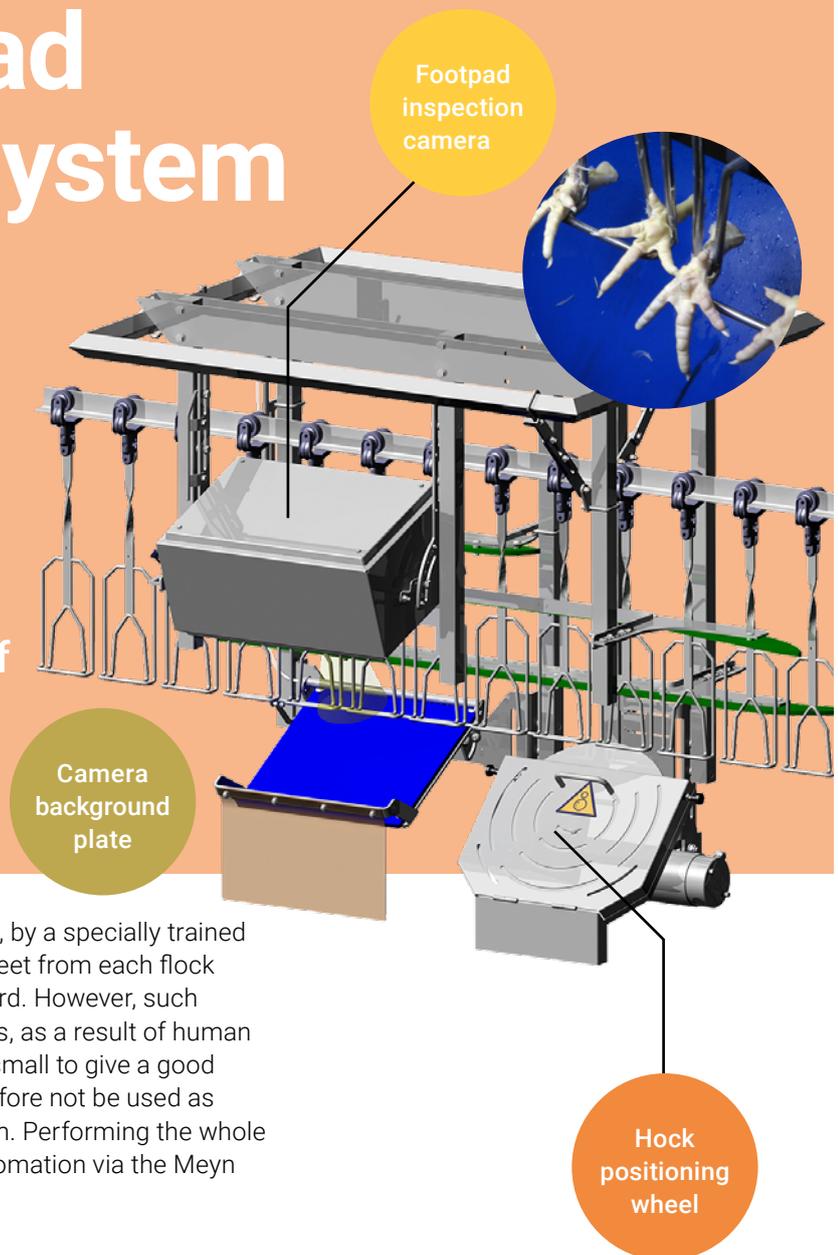# Meyn Footpad Inspection System

Footpad lesions are considered to be an important parameter for measuring broiler welfare. Systematic assessment of footpad lesion occurrence in processed flocks is also becoming part of regulations in many countries.

Footpad inspection camera

Camera background plate

Hock positioning wheel

In many facilities monitoring is performed manually, by a specially trained employee who checks two random samples of 50 feet from each flock and awards a score based on the Swedish score card. However, such manual checks can result in grading inconsistencies, as a result of human interpretation. Furthermore, the sample size is too small to give a good statistical representation of the flock, and can therefore not be used as valid feedback or as an accurate control mechanism. Performing the whole process manually is also very time consuming. Automation via the Meyn Footpad Inspection System provides the solution.

Product highlights

Consistent grading, with results unaffected by human interpretation

Grading based on absolute and reproducible critical limits, with no daily or weekly learning procedures

Inspection of more than 90% of the flock (not a limited sample size)

Reliable grading of feet at high line speeds

Results shown in real time, and stored digitally without manual interference
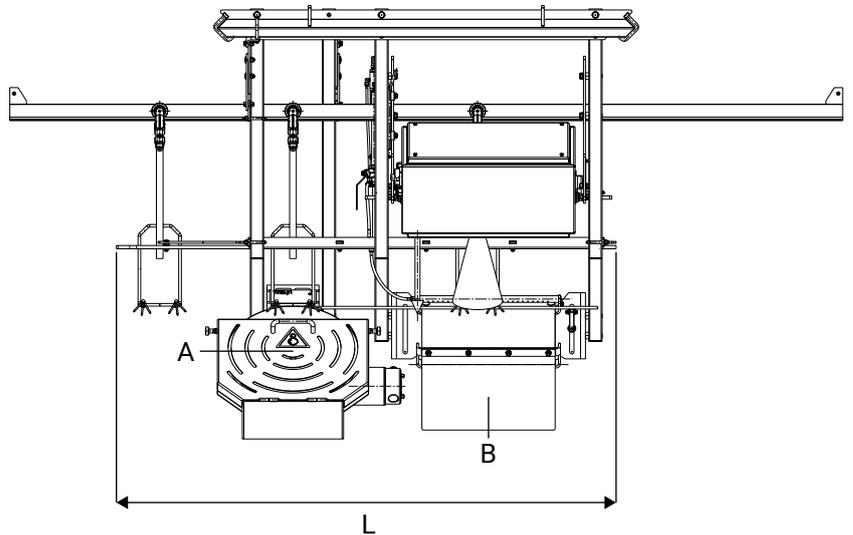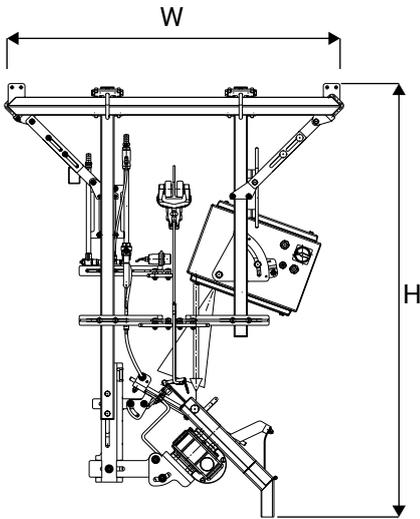
Storage of a predefined number of images per flock

Reduced working time for inspection of feet

Can be combined with a Selective Feet Ejector to selectively remove graded feet, automatically, into the correct processing lines

meyn

Operation

1. After hocks are separated from the chicken, they remain in the shackle and are transported to a hock positioning wheel. This wheel ensures that hocks are positioned correctly for an optimal image to be taken by the camera
2. The camera captures an image as the hock passes by in the shackle, aided by a bright LED light for optimal resolution and a back plate for optimal contrast
3. The image is then transferred to the software, with a selection stored for further reference
4. The software analyses the product based upon the relevant grading scorecard or quality parameters
5. Data is logged, and can be reported by flock and farm for supply traceability
6. The data can also be used as an input for a Selective Hock Ejector later in the line, which can automatically remove the relevant grades of products into the correct processing line.

Footpad Inspection System

Specifications

Capacity	BPH	15,000
Shackle Pitch	inch	6
Length (L)	mm	1,500
Width (W)	mm	1,000
Height (H)	mm	1,310
Weight	kg	180
Electric power installed:		
Hock positioning wheel (A)	kW	0.4
PC Cabinet (B)	kW	0.9

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